Request to Archive
With The National Centers for Environmental Information
For Microwave Tropical Cyclone Products(AMSU)
Provided by OSPO

2015-04-15

This information will be used by NCEI to conduct an appraisal and make a decision on the request.

1. Who is the primary point of contact for this request?

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2. Name the organization or group responsible for creating the dataset.

OSPO

3. Provide an overview summarizing the scope of data you want to archive. Describe the outputs, data variables, including their measurement resolution and coverage.

AMSU Microwave Sounder-based TC Products provide estimates of tropical cyclone maximum wind, minimum sea level pressure, radii of 34, 50, 64 kt winds in 4 quadrants relative to the storm center, balanced horizontal winds 1000 to 200 mb within 600 km of the storm center.
Special coverage: Global tropical cyclone basins
6 x 6 degree domain centered on each active TC
Special resolution: Point values for intensity/radii
0.2 lat/lon grids for balanced winds.
Temporal resolution: 6-hour (0-6hr, 6-12hr, 12-18hr, 18-24hr)
The annual storage is dependent on the number of storms and their duration
4.

4. What is the time period covered by the dataset? (YYYY-MM-DD, YYYY-MM or YYYY)

From 2015-05-28
Ongoing as continuous updates to the data record

5. Edition or version number(s) of the dataset:

v1.2.1

6. Approximate date when the dataset was or will be released to the public:

2015-05-29

7. Who are the expected users of the archived data? How will the archived data be used?

National Hurricane Center(NHC), Joint Typhoon warning Center(JTWC) as well as other tropical cyclone cernters and tropical cyclone research scientists

8. Has the dataset undergone user evaluation and/or an independent review process? Did NCEI participate in design reviews?
No

9. Describe the dataset's relationship to other archived datasets, such as earlier versions or related source data. If this is a new version, how does it improve upon the previous version(s)?
This is basically the same product as 'Microwave Tropical Cyclone Products' which will be archived at NCDC at the end of May. The only difference is that this product uses satellite data from AMSU instrument on NOAA-18/19, Metop-A/B and the 'Microwave Tropical Cyclone Products' uses ATMS data on S-NPP.

10. List the input datasets and ancillary information used to produce the data.
NPR.MIRS.V7.SND.AAMH.satid*.nc
NPR.MIRS.V7.IMG.AAMH.satid*.nc

TC storm track files - <TC storm ID>.dat

1-degree global GFS analyses

11. List web pages and other links that provide information on the data.
Metadata are included in netCDF file attributes and data attributes.

12. List the kinds of documents, metadata and code that are available for archiving. For example, data format specifications, user guides, algorithm documentation, metadata compliant with a standard such as ISO 19115, source code, platform/instrument metadata, data/process flow diagrams, etc.
1. AMSUTC usurs Manual
   AMSUTC System Maintenance Manual
   AMSUTC Algorithm Theoretical Basis Document(ATBD)

13. Indicate the data file format(s).
1. HDF4

14. Are the data files compressed?
No

15. Provide details on how the files are named and how they are organized (e.g., file_name_pattern_YYYYMM.tar in monthly aggregations).
TC-bbnnyyyy-XYA_v1r2_satid_syyyymmddhhmmsss_eyyyymmddhhmmsss_cyyyymmddhhmsss.nc
TC-bbnnyyyy-RZA_v1r2_satid_syyyymmddhhmmsss_eyyyymmddhhmmsss_cyyyymmddhhmsss.nc

Where
bb is the ocean basin(al,ep,cp,wp,sh,io)
satid is satellite ID(noaa18, noaa19, metopa,metopb)
nn is the storm number in that basin in the current year
yyyy is the storm year
yyyymmddhhmmsss is the year, month, day, hour, minute, second and tenths of seconds of the analysis,

16. Explain how to access sample data files and/or a file listing for previewing. If it is not available now, when will it be available?

Sample files are available at:
ftp://satepsanone.nesdis.noaa.gov/TCFP/AMSUTC/

17. What is the total data volume to be submitted?

Continuous Data: data volume rate for a continuous data production.

Total Data Volume Rate: 280MB per Day
Data File Frequency: 150 per Day
Data Production Start: 2015-05-28

18. Are later updates, revisions or replacement files anticipated? If so, explain the conditions for submitting these additional data to the archive.

No additional updates, revisions or replacement data are anticipated.

19. Describe the server that will connect to the ingest server at NCEI for submitting the data.

Physical Location: Suitland, MD 20746
System Name: DDS
System Owner: DOC/NOAA/NESDIS/OSDPD > Office of Satellite Data Processing and Distribution, NESDIS, NOAA, U.S. Department of Commerce
Additional Information:

20. What are the possible methods for submitting the data to NCEI? Select all that apply.

1. FTP PULL
2. FTP PUSH

21. Identify how you would like NCEI to distribute the data. Web access support depends on the resources available for the dataset.

1. Unknown

22. Will there be any distribution, usage, or other restrictions that apply to the data in the archive?

No known constraints apply to the data.

23. Discuss the rationale for archiving the dataset and the anticipated benefits. Mention any risks associated with not archiving the dataset at NCEI.

AMSUTC archive data meet the NOAA mission goal to serve society's need for weather and water information. Archiving this data will benifit in studing the features of the tropical cyclone and improve the quality of this product in the future.

24. Are the data archived at another facility or are there plans to do so? Please explain.

No

25. Is there an existing agreement or requirement driving this request to archive? Have you already contacted someone at NCEI?

No

26. Do you have a data management plan for your data?

No

27. Have funds been allocated to archive the data at NCEI?

JPSS PSDI fund

28. Identify the affiliated research project, its sponsor, and any project/grant ID as applicable.

N/A

29. Is there a desired deadline for NCEI to archive and provide access to the data?

Archive by: 2015-05-28

Accessible by:

30. Add any other pertinent information for this request.

This is an event driven product. Data volume and file numbers are depended on the active cyclone numbers. For an active tropical cyclone the volume would be ~40MB per day(25x1.6MB). The data volume in section 17 is the maximum estimated value(depends on how many tropical cyclones, 7 storms x40Mb ~ 280MB per day)